Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

Claims 1-16. (Cancelled)

- 17. (New) a solid support comprising:
- a. A substrate;
- b. An electrostatic layer comprising a positively charged compound on the substrate; and
- c. A chemically modifying layer on the electrostatic layer making it possible to introduce a functional group capable of covalently binding to a nucleic acid molecule.
- 18. (New) The solid support according to claim 17, wherein the chemically modifying layer contains a carboxyl group.
- 19. (New) The solid support according to claim 17, wherein the electrostatic layer includes an amino group-containing compound that does not covalently bond to the substrate.
- 20. (New) The solid support according to claim 17. wherein the electrostatic layer includes an amino group-containing compound by covalently binding to the substrate,

and the compound containing an amino group has an amino group at the terminus to which the substrate does not bind.

- 21. (New) The solid support according to claim 19, wherein the amino group-containing compound is polyarylamine.
- 22. (New) The solid support according to claim 17, wherein the thermal conductivity of the solid support is 0.1 W/cm.K or higher.
- 23. (New) A method for producing a solid support comprising:
- a. providing an electrostatic layer having a positively charged compound by depositing a compound having an unsubstituted or monosubstituted amino group and a carbon compound on the substrate;
- b. providing a chemically modifying layer on the electrostatic layer by introducing a functional group capable of covalently binding to a nucleic acid molecule.
- 24. (New) A method for producing a solid support comprising:
- a. providing an electrostatic layer having a positively charged compound by dipping a substrate into a compound having an unsubstituted or monosubstituted amino group and a carbon compound;

- b. providing a chemically modifying layer on the electrostatic layer by introducing a functional group capable of covalently binding to a nucleic acid molecule.
- 25. (New) A method for immobilizing a primer on a solid support according to claim 17, comprising hybridizing a nucleic acid molecule to the primer, thereby extending a nucleic acid molecule complementary to the nucleic acid molecule.
- 26. (New) A method for detecting a nucleic acid molecule, comprising:
- a. immobilizing a primer on a solid support according to claim 17;
- b. hybridizing a nucleic acid molecule to the primer;
- c. extending a nucleic acid molecule complementary to the nucleic acid molecule to the primer;
- d. extending a nucleic acid molecule complementary to the nucleic acid molecule in the presence of a labeled nucleic acid; and
- e. reading a signal derived from the labeled nucleic acid incorporated into the complementary nucleic acid molecule.

- 27. (New) A method for amplifying a nucleic acid molecule comprising:
- a. immobilizing a primer on a solid support according to claim 17;
- b. hybridizing a nucleic acid molecule to the primer; and
- c. subjecting the nucleic acid-primer to PCR reaction.
 - 28. (New) A method for amplifying DNA comprising:
- a. immobilizing a primer on a solid support according to claim 17;
 - b. hybridizing DNA to the primer; and
- c. reacting the primer-DNA with a strand-displacing DNA polymerase.
- 30. (New) The method according to claim 26, further comprising amplifying the nucleic acid molecule after hybridizing a nucleic acid molecule to the primer.